RULE 63 (37 C.F.R. 1.63) INVENTORS DECLARATION FOR PATENT APPLICATION IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

As a below named inventor, I hereby declare that my residence, mailing address and citizenship are as stated below next to my name, and I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if piural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

		*	OPTICAL AMPLIFII	ER		
	ification of which (check	applicable box(es)):				
	s attached hereto					
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ra	was filed as PCT Internati	• •		on		
and (if a	pplicable to U.S. or PCT	application) was amend	ded on		•	
amendm defined I listed be which pr	nent referred to above. I a in 37 C.F.R. 1.56. I herel low and have also identif flority is claimed or, if no p	acknowledge the duty t by claim foreign priority ied below any foreign a	o disclose to the Patent O benefits under 35 U.S.C.	ified specification, includin ffice all information known 119/365 of any foreign app entor's certificate having a plication:	to me to be material to lication(s) for patent or	patentability as inventor's certific
Priority F	Foreign Application(s): Application Numb	or	Country		Day/Mr	onth/Year Filed
	0317530.4	31	GB		Daynin	26-Jul-2003
l hereby	claim the benefit under 3	5 U.S.C. 120/365 of al	I prior United States and F	CT International applicatio	ns listed above or belo	w:
	S./PCT Application(s): tion Serial No.		Day/Month/Year	Filed		atus: patented
			•		pena	<u>.</u>
PCT/GB	104/003190		23-Jul-2004			PENDING
be true; imprison applicati 4000 (to owner's/ resulting	and further that these standers, or both, under Section or any patent issued to whom all communication downers' attorneys to proseguents. I also authorize communicated from the p	tements were made watton 1001 of Title 18 of hereon. And on behalt are to be directed) a secute this application of Nixon & Vanderhye to	ith the knowledge that will the United States Code a f of the owner(s) hereof, I I and the attorneys of: Cui and to transact all busines add or delete/attorneys fro	Indicate that all statements made ful false statements and the fund that such willful false statements appoint Nixon & Value of the Patent and Tradement on that Customer Number, attorn sending instructions to Jenkins	e like so made are pun atements may jeopardi nderhye P.C., telephor 23117, individuall nark Office connected to and to act and rely so	ishable by fine or ze the validity of the number 703-81 y and collectively herewith and with lely on instructions
	Residence: (city)	(first) Malvern	MI	(last) (state/country) UK	<i>(</i>	(citizenship)
	Mailing Address: (Zip Code)	WR14 3PS	ivern Technology Centre,	St Andrew's Road, Malver	n, vvorcestersnire	
2.	inventor's Signature:				Date:	
	Inventor:	Mark	E	McNie		British
		(first)	MI	(last)		(cltizenship)
	Residence: (city)	Malvern	toras Tarbarda do 1	(state/country) <u>UK</u>	- Mariana	
	Mailing Address:		ivern Technology Centre,	St Andrew's Road, Malver	n, vvorcestershire	
	(Zip Code)	WR14 3PS				

Serial No. Page 2

3.	Inventor's Signature:				Date:	
	Inventor:	James (first)	MI		ullian ist)	British (citizenship)
	Residence: (city)	Malvern		(state/country)	United Kingdom	
	Mailing Address:	QinetiQ Limited, Malvern	Technology Centre, St /		Malvern, Worcestershire	
	(Zip Code)	WR14 3PS				
4.	Inventor's Signature:				Date:	
	Inventor:	Craig	D	Sta	icey	British
		(first)	MI		ist)	(citizenship)
	Residence: (city)	Malvern		(state/country)	United Kingdom	• • • • • • • • • • • • • • • • • • • •
	Mailing Address:	QinetiQ Limited, Malvern	Technology Centre, St	Andrew's Road.	Malvern, Worcestershire	· · · · · · · · · · · · · · · · · · ·
	(Zip Code)	WR14 3PS				
5.	Inventor's Signature:				Date:	
	Inventor:					
		(first)	MI	(la	ist)	(citizenship)
	Residence: (city)		-	(state/country)		
	Mailing Address:			•		
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6.	Inventor's Signature:				Date:	
	Inventor:					
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	Residence: (city)			(state/country)		
	Mailing Address:			•		
	(Zip Code)					

FOR ADDITIONAL INVENTORS, check box [] and attach sheet with same information and signature and date for each.

Case No:P7294/USW

Nixon & Vanderhye P.C. (10/99) (Domestic Non-Assigned/Foreign) Page 1

RULE 63 (37 C.F.R. 1.63) INVENTORS DECLARATION FOR PATENT APPLICATION IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Nixon & Vanderhye P.C. (10/99) (Domestic Non-Assigned/Foreign)

Serial	No.
Page	2

•	Inventor's Signature: Inventor:	James		McQuillan	British (clúzenship)
	MARKOI.	(first)	M!	(last)	(cincentatib)
	Residence: (cily)			(state/country) United Kingdom	nice
	Malling Address:	QinetiQ Limited, Malver	rn Technology Centre, S	Andrew's Road, Malvern, Worcesterst	ino .
	(Zip Code)	WR14 3PS			
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	Inventor's Signature:			Date:	British
).		Craia	D	Stacey	
	Inventor:	(first)	MI	(last)	(citizenship)
	Residence: (city)	3.4 - 1		(state/country) United Kingdom	
	Mailing Address:	OigetiO Limited Malve	rn Technology Centre, S	St Andrew's Road, Malvern, Worcesters	hire
	(Zip Code)	WR14 3PS			
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	Inventor:	(first)	MI	(la <u>st)</u>	(citizenship)
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6.	Inventor's Signature:				
	Inventor:	(first)	MI	(last)	(citizenship)
	Dayldon on Anibal	(11131)		(state/country)	
	Residence: (city)				
	Mailing Address:				
	(Zip Code)				

Insert inventors 7-12 before "FOR ADDITIONAL INVENTORS" on page 2; inventors 13-16 should be on PAGE 3 FROM THE TOOLBAR ABOVE

FOR ADDITIONAL INVENTORS, check box [] and attach sheet with same information and signature and date for each.

Nixon & Vanderhye P.C. (10/99) (Domestic Non-Assigned/Foreign) Page 1

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			OPTICAL AMPLIFIER	?	
	ification of which (check	applicable box(es)):			
	s attached hereto				
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	0317530.4		GB		26-Jul-2003
I hereby	claim the benefit under 3 Application Numb		Jnited States provisional a Date/Month/Year F	application(s) listed below iled	
I hereby	claim the benefit under 3	5 U.S.C. 120/365 of all p	rior United States and PC	T International application	is listed above or below:
	S./PCT Application(s):				Status: patented
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be true; imprisor applicat 4000 (to owner's resulting	and further that these sta iment, or both, under Sec- ion or any patent issued to whom all communication fowners' attorneys to pros patent. I also authorize communicated from the p	tements were made with tlon 1001 of Title 18 of th hereon. And on behalf of as are to be directed) and secute this application and Nixon & Vanderhye to ad	the knowledge that willful e United States Code and the owner(s) hereof, I he the attorneys of: Cusi i to transact all business i d or delete attorneys from	false statements and the that such willful false state reby appoint Nixon & Van tomer Number in the Patent and Tradema that Customer Number, a	on information and belief are believed to like so made are punishable by fine or tements may jeopardize the validity of the derhye P.C., telephone number 703-816-23117, individually and collectively ark Office connected therewith and with the and to act and rely solely on instructions Nixon & Vanderhye on behalf of the
1.	Inventor's Signature:				Date:
	Inventor:	Richard	М	Jenkins	British
	D-14	(first)	MI	(last)	(citizenship)
	Residence: (city) Mailing Address:	Malvern	ra Tachaeleau Cantra Ct	(state/country) UK Andrew's Road, Malvern	Maranahan
	(Zip Code)	WR14 3PS	im reciniology Centre, Si	Andrew's Road, Malvern	, worcestershire
	(2.5 0000)	7111110			
2.	Inventor's Signature:				Date:
	Inventor:	Mark	E	McNle	British
	Residence: (city)	(first) Malvern	MI	(last) (state/country) UK	(citizenship)
	Mailing Address:		rn Technology Centre St	(state/country) <u>UK</u> Andrew's Road, Malvern	Worcestershire
	(Zlp Code)	WR14 3PS	an reciniology Centre, Of	resolution o recou, maivoili	11101000101011110

Serial No. (Domestic Non-Assigned/Foreign) Lawer M. C. Page 2 3. Inventor's Signature: Inventor: McQuillan British (last) (citizenship) Malvern (state/country) United Kingdom
QinetiQ Limited, Malvern Technology Centre, St Andrew's Road, Malvern, Worcestershire Residence: (city) Mailing Address: (Zip Code) WR14 3PS 4. Inventor's Signature: Date: Inventor: Craig D Stacey British (first) MI (last) (citizenship) Residence: (city) (state/country) United Kingdom Malvern Mailing Address: QinetiQ Limited, Malvern Technology Centre, St Andrew's Road, Malvern, Worcestershire (Zip Code) WR14 3PS 5. Inventor's Signature: Date: Inventor: М (first) (citizenship) (last) Residence: (city) (state/country) Mailing Address: (Zip Code) 6. Inventor's Signature: Date: Inventor: (first) MI (citizenship) (last) Residence: (city) (state/country) Mailing Address: (Zip Code)

FOR ADDITIONAL INVENTORS, check box [] and attach sheet with same information and signature and date for each.

Nixon & Vanderhye P.C. (10/99)

Case No:P7294/USW

Nixon & Vanderhye P.C. (10/99) (Domestic Non-Assigned/Foreign) Page 1

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Serial No. Page 2

3.	Inventor's Signature:				Date:		
	Inventor:	James		McC	uillan	British	1
		(first)	MI	(la	ast)	(citizens	hip)
	Residence: (city)	Malvern	,	(state/country)	United Kingdom		• •
	Mailing Address:	QinetiQ Limited, Malvern T	Technology Centre, S	Andrew's Road.	Malvern, Worceste	ershire	
	(Zip Code)	WR14 3PS		•			
4.	Inventor's Signature:	immo			Date:	21st December	2005
•••	Inventor:	Craig	D	Sta	acey	Britisl	1
	mivernor.	(first)	MI		ast)	(citizens	-
	Residence: (city)	Malvern	****	(state/country)			···F1
	Mailing Address:	QinetiQ Limited, Malvern 7	Technology Centre S				
	(Zip Code)	WR14 3PS	radimology contro,				
	(,,						
5.	Inventor's Signature:				Date:		
	Inventor:		•				
		(first)	MI	(la	ast)	(citizens	hip)
	Residence: (city)			(state/country)			
	Malling Address:						
	(Zlp Code)						
6.	Inventor's Signature:				Date:		
٥.	Inventor:			<u> </u>			
	mivonor.	(first)	MI	(la	ast)	(citizens	hip)
	Residence: (city)			(state/country)			
	Mailing Address:		, , , , , , , , , , , , , , , , , , , ,	- ''			
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	/—,p 3000/						

FOR ADDITIONAL INVENTORS, check box [] and attach sheet with same information and signature and date for each.

IPD/P7294/USW

ASSIGNMENT OF PATENT APPLICATION.

Richard M JENKINS

	Mark E MCNIE James McQUILLAN
	Craig D STACEY
(Inventors)	
	In consideration of past and future employment, and my (our) obligation to assign intellectual property generated as result of my (our) employment, the receipt and sufficiency of which consideration is hereby acknowledged, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to
(Assignee)	(QINETIQ LIMITED
(Address)	(of 85, Buckingham Gate, London SW1E 6PD United Kingdom
	(hereinafter designated as the Assignee) the undersigned's entire right, title and interest for the United States, its territories, dependencies and possessions, and for the country of
(Other	in the invention, and all application for patent and any Letters
Countries)	Patent which may be granted therefor, known as
(Title)	OPTICAL AMPLIFIER (Case No. P7294/USW
,	for which the undersigned has (have) executed on even date herewith an application for patent in the United States of America or, if not on even date, then has executed (on or has already filed in (U.S. appln. Serial No, filed on (The undersigned acknowledges an obligation of assignment of this invention to said assignee at the time the invention was made.
	-

The undersigned agree(s) to execute all papers and documents necessary in connection with the application or any interference which may be declared and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient and further to perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

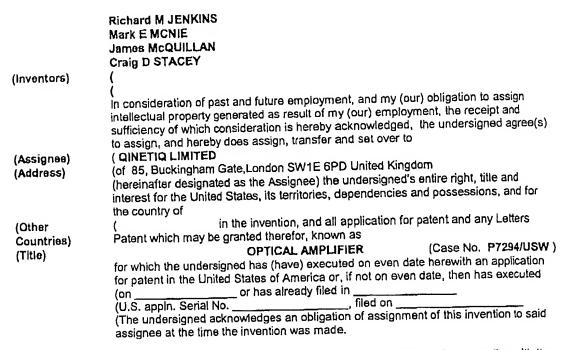
The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the firm of NIXON & VANDERHYE P.C. the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned signature(s).					
Signature of Inventor	Richard M JENKINS	Date	10/01/2006		
Witnessed by	Travaror	Date	15th January 2000		
Signature of Inventor	Mark E MCNIE	Date			
Witnessed by		Date			
Signature of Inventor	James McQUILLAN	Date			
Witnessed by		Date			
Signature of Inventor	Craig D STACEY	Date			
Witnessed by		Date			

ASSIGNMENT OF PATENT APPLICATION



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In witness whereof, exec	uted by the undersigned on the date	(s) opposite ti	he undersigned signature(s).
Signature of Inventor	Richard M JENKINS	Date _	
Witnessed by		Date _	
Signature of Inventor	Mark E MCNIE	Date -	20 Jan 06
Witnessed by	MRICHAID A. L. RICKARD	Date	20 Jan 06
Signature of Inventor	James McQUILLAN	Date	
Witnessed by		Date	
Signature of Inventor	Craig D STACEY	Date	
Witnessed by		Date	

IPD/P7294/USW

ASSIGNMENT OF PATENT APPLICATION

	Richard M JENKINS Mark E MCNIE
	James McQUILLAN
	Craig D STACEY
(Inventors)	(
	In consideration of past and future employment, and my (our) obligation to assign intellectual property generated as result of my (our) employment, the receipt and sufficiency of which consideration is hereby acknowledged, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to
(Assignee)	(QINETIQ LIMITED
(Address)	(of 85, Buckingham Gate,London SW1E 6PD United Kingdom (hereinafter designated as the Assignee) the undersigned's entire right, title and interest for the United States, its territories, dependencies and possessions, and for the country of
(Other	(in the invention, and all application for patent and any Letters
Countries) (Title)	Patent which may be granted therefor, known as OPTICAL AMPLIFIER (Case No. P7294/USW) for which the undersigned has (have) executed on even date herewith an application for patent in the United States of America or, if not on even date, then has executed (on or has already filed in (U.S. appln. Serial No, filed on
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Date Signature of Inventor Richard M JENKINS Witnessed by Date Date Signature of Inventor Mark E MCNIE Date Witnessed by Date 23rd December 2005

Date 23rd December 2005. Signature of Inventor Witnessed by Date Signature of Inventor Craig D STACEY Date Witnessed by

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned signature(s).

IPD/P7294/USW

ASSIGNMENT OF PATENT APPLICATION

Richard M JENKINS Mark E MCNIE James McQUILLAN Craig D STACEY

(inventors)

In consideration of past and future employment, and my (our) obligation to assign intellectual property generated as result of my (our) employment, the receipt and sufficiency of which consideration is hereby acknowledged, the undersigned agree(s)

to assign, and hereby does assign, transfer and set over to

(Assignee) (Address)

(QINETIQ LIMITED (of 85, Buckingham Gate, London SW1E 6PD United Kingdom

(hereinafter designated as the Assignee) the undersigned's entire right, title and interest for the United States, its territories, dependencies and possessions, and for

the country of

(Other Countries) (Title)

in the invention, and all application for patent and any Letters

Patent which may be granted therefor, known as

OPTICAL AMPLIFIER

(Case No. P7294/USW)

for which the undersigned has (have) executed on even date herewith an application for patent in the United States of America or, if not on even date, then has executed

or has already filed in

filed on (U.S. appln. Serial No. (The undersigned acknowledges an obligation of assignment of this invention to said

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In witness whereof, executed by the undersigned on the date(s) opposite the undersigned signature(s).

Signature of Inventor .	Richard M JENKINS	Date	
Witnessed by		Date	
Signature of Inventor	Mark E MCNIE	Date	
Witnessed by		Date	
Signature of Inventor	James McQUILLAN	Date	
Witnessed by		Date	
Signature of Inventor	Craig D STACEY	Date	21st December 2005
Witnessed by	Even high	Date	21st December 2005

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